

ABSTRACT

Switching valve utilizing a rotatable seal suitable for use in a regenerative thermal oxidizer, and oxidizer including the switching valve. The valve of the present invention exhibits excellent sealing characteristics and minimizes wear. The valve has a seal plate that defines two chambers, each chamber being a flow port that leads to one of two regenerative beds of the oxidizer. The valve also includes a switching flow distributor that provides alternate channeling of the inlet or outlet process gas to each half of the seal plate. The valve operates between two modes: a stationary mode and a valve movement mode. In the stationary mode, a tight gas seal is used to minimize or prevent process gas leakage. The gas seal also seals during valve movement.